

Attorney Docket No. 59034-8019.US01

AMENDMENTS TO THE CLAIMS

1. (amended) A method for producing core-shell type metallic alloy nanoparticles, comprising:

providing a dispersion of a first metal as nanoparticles in an appropriate organic solvent;

providing a solution of a metallic precursor containing a second metal in an appropriate

organic solvent, in which the second metal has a reduction potential higher than that of the

first metal; and

combining the dispersion and the solution together to carry out the transmetalation reaction of the first and second metals, thereby core-shell type metallic alloy nanoparticles are formed.

2. (cancelled)

3. (unchanged) The method according to claim 1, wherein a stabilizer is added to the solution of the metallic precursor containing the second metal.

4. (unchanged) The method according to claim 3, wherein the stabilizer includes compounds having following structures:

R-X

in which R is a straight or branched hydrocarbonate group having 2 to 22 carbon atoms and X is selected from a isocyanate group, sulphonate group, phosphate group, carboxylate group, amine group and thiol group.

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5. (amended) The method according to claim 1, wherein the first metal comprises a member selected from the group consisting of manganese, chromium, iron, cobalt, nickel, copper, silver, palladium, and platinum ~~and gold~~.

6. (amended) The method according to claim 1, wherein the first metal comprise at least two metals of core-shell type alloy nanoparticles ~~or solid solution alloy type~~.

7. (unchanged) The method according to claim 1, wherein the metallic precursor containing the second metal comprises at least one member selected from the group consisting of β -diketonate compounds, phosphine compounds, organic metallic compounds, hydrocarbonate ammonium salt compounds of R_4N , in which R is a straight or branched chain having 1 to 22 carbon atoms or a chain containing a phenyl group ~~and the like~~.

8. (amended) The method according to claim 1, wherein the reaction temperature required for the transmetalation reactions is 50 to 300°C.

Claims 9-23 (Cancelled).